

CMRI

Value Chain (2008)



Tel : 82-2-2108-8070

Homepage : www.cmri.co.kr

www.chemlocus.co.kr

E-mail : consulting@chemlocus.com

(2008 7)

CHEMICAL MARKET RESEARCH INC.

1) 2006 IEA-PVPS

1.5 GW... 4 50%

가
2005 953MW가
2003 1
1/3
2004

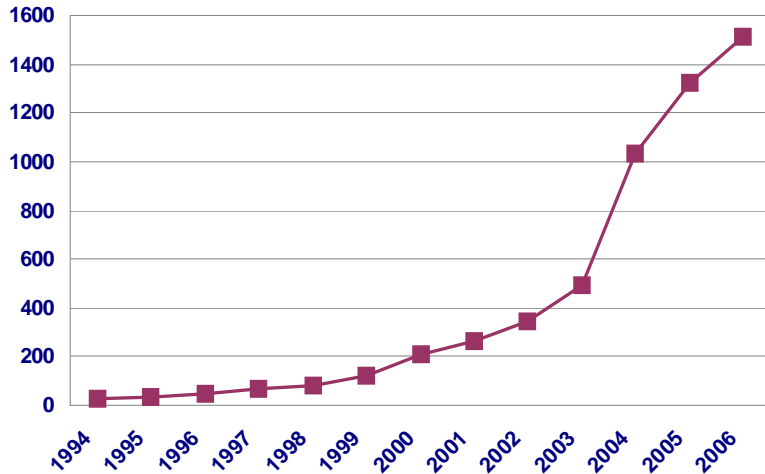
2) 2006

5.7GW

2005 2006 2,863MW 50%
2004 가 30% 2005 1,709MW
3 가 5,196MW 90%

(1994-2006)

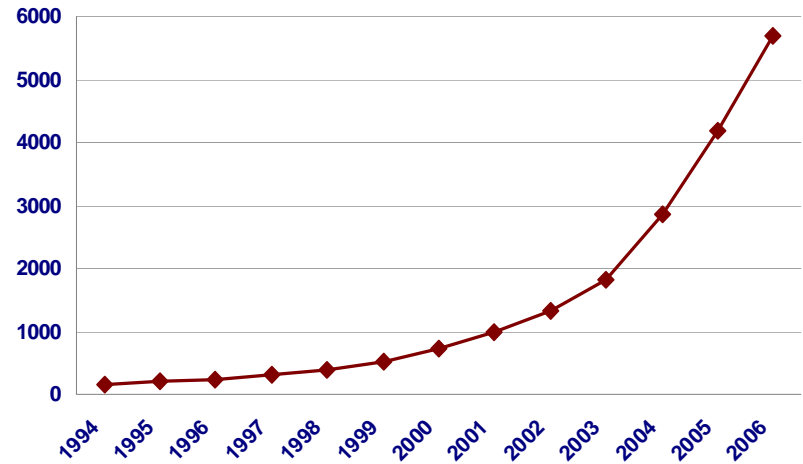
(:MW)



IEA-PVPS

(1994-2006)

(:MW)



IEA-PVPS

1) 2006 IEA-PVPS

1.9GW.....2007 Q-Cell Sharp

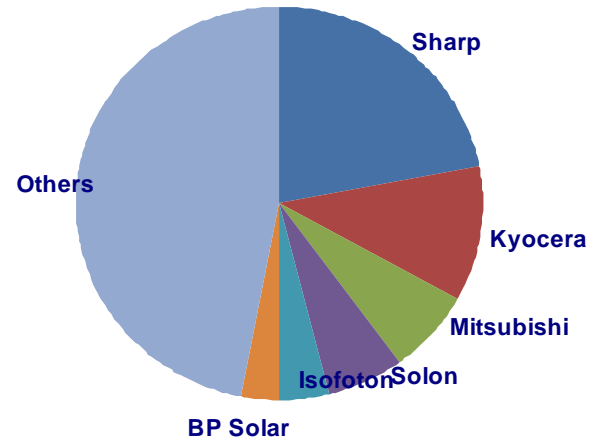
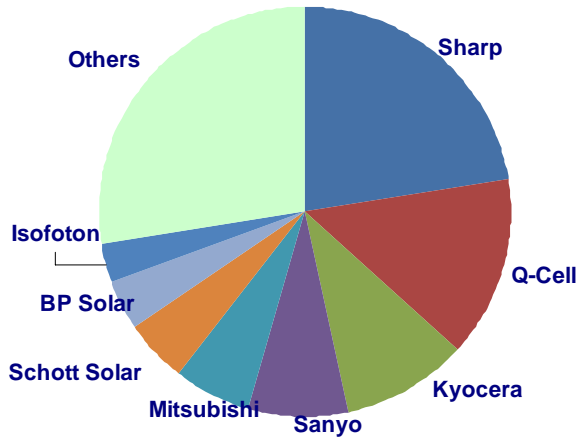
- IEA-PVPS 2006 2005 26.8% 가 1.9GW 가
 - 2008 2 가 2005 1.8GW 40% 가 2.5GW 가
 Q-Cell 1 Sharp

2) Sharp, Kyocera, Mitsubishi

- Sharp, Kyocera, Mitsubishi 1
 , IEA-PVPS Suntech, Motech

IEA-PVPS (2006)

IEA-PVPS (2006)



1) 2007

44MW

.....2006

96%,

5

180% 가

가 2005 2005 가 26% 2004 가 2006 9MW
 43%, 2007 29MW 66% 가 4 270% 가 가

2)

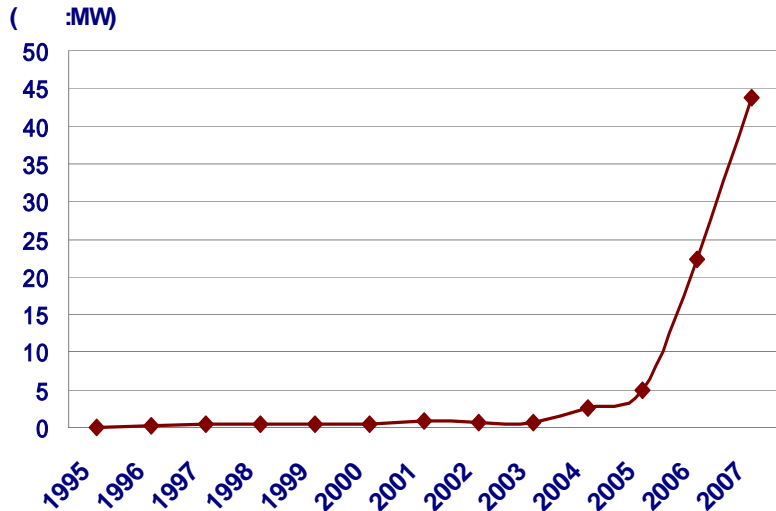
2007 80MW

5

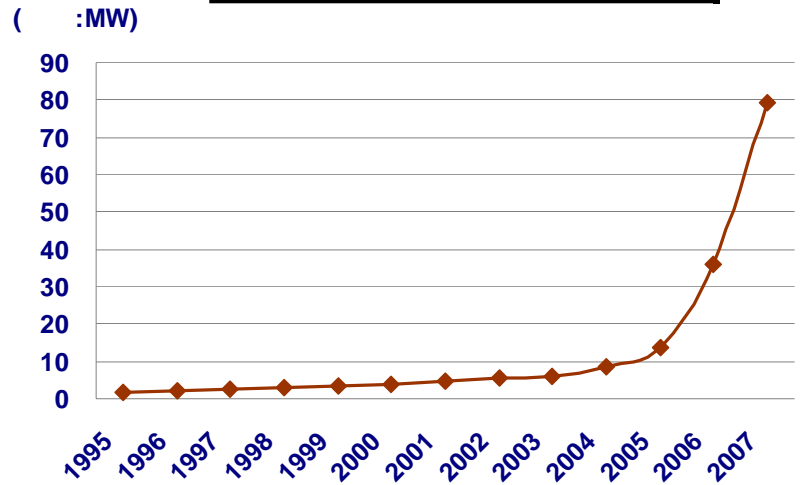
115% 가

10M 13.5MW 2007 80MW 2005 157% 가 2004 8.5MW 2005
 , 2006 4 115%가 가 35.8MW

(1995-2007)



(1995-2007)



PV-Cell Market

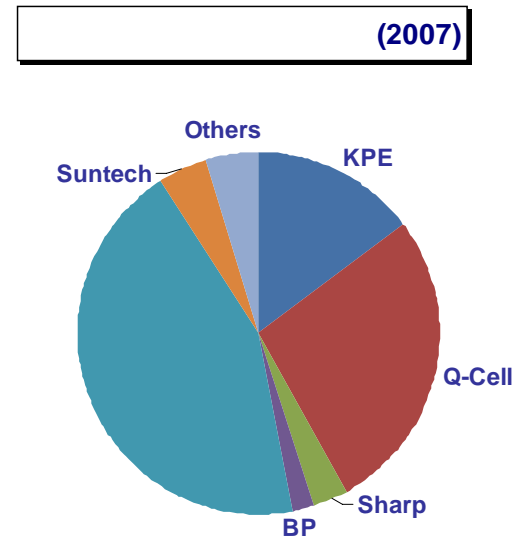
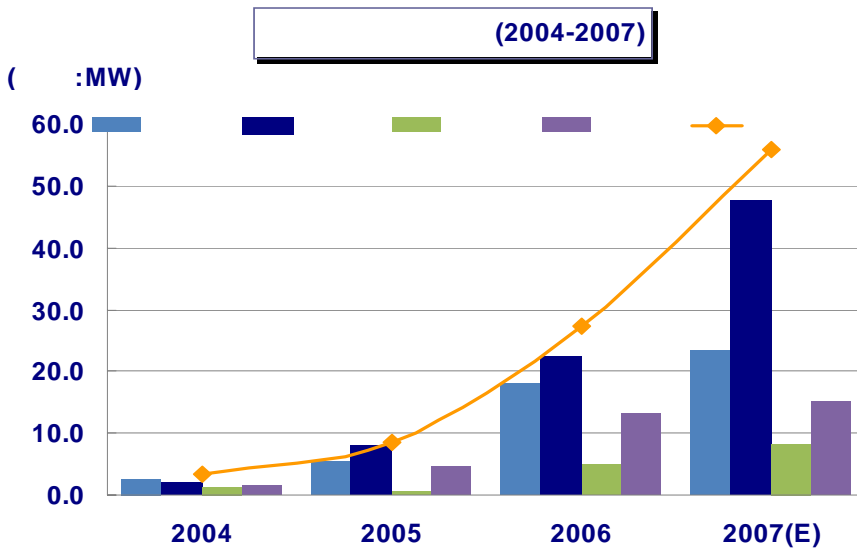
1) , KPE 15%, 85%....2008



2) , Motech Jintech , Sharp



3) 2007 1700



PV-Module Market

1) 2007

210MW

48MW 가

23%

50% 가 , 2007 가

2)

20

.....2007

59%,

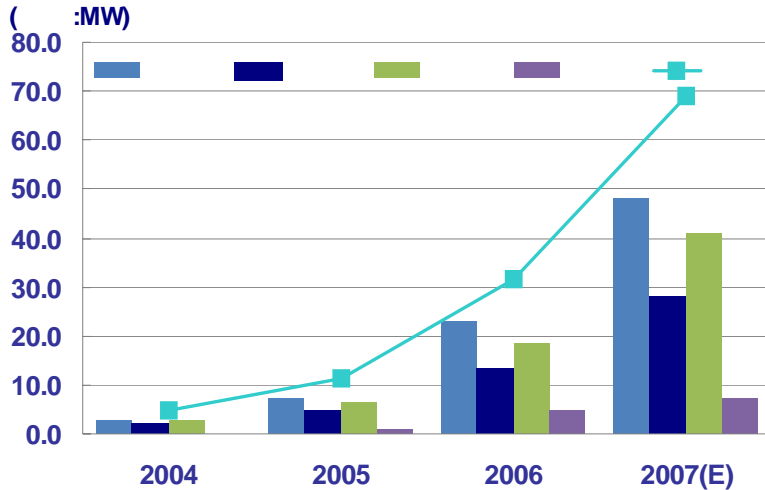
41%

- Origin Maker 가 , Kyocera가 , Sharp-Korea 4.7MW 가 2 , Sharp가 , 4.3MW 가 , 2

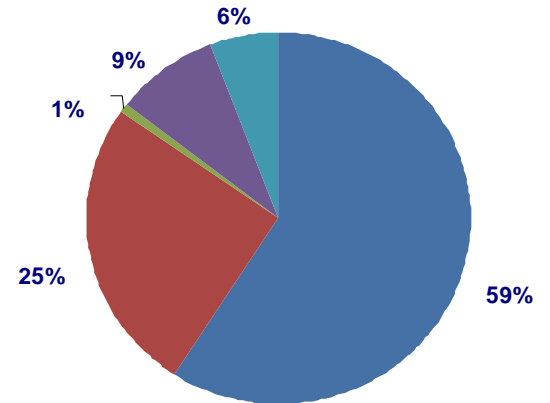
- Vender 가 1 , 가 2 , 가

3, 4

(2004-2007)



(2007)



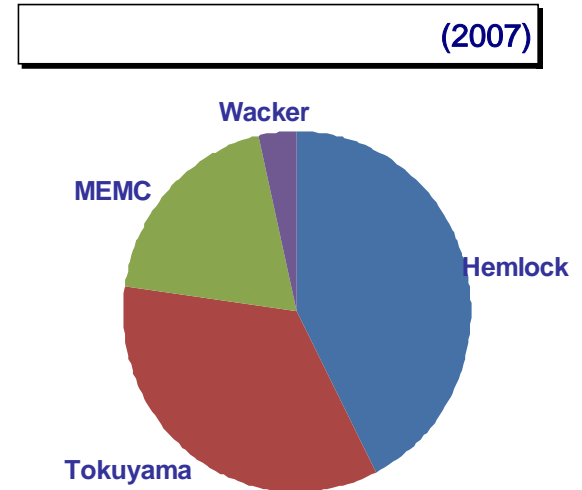
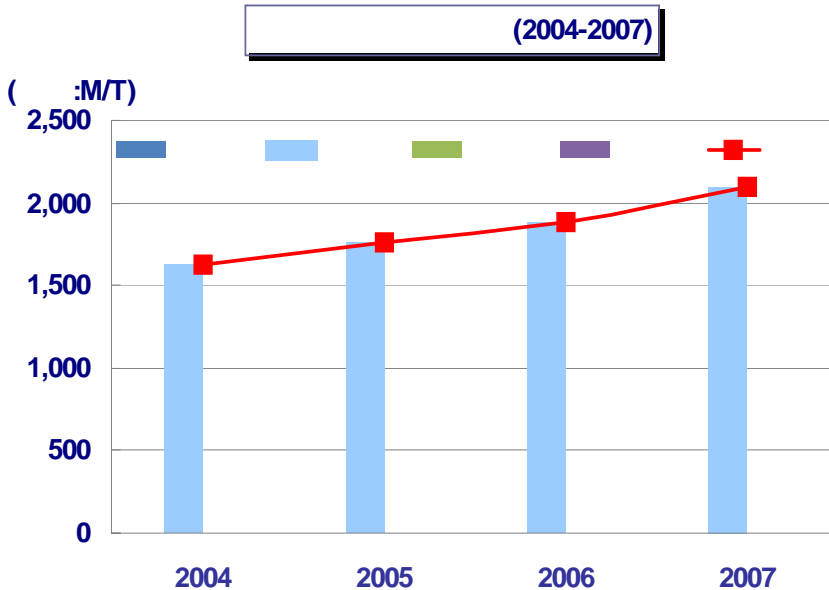
Poly-Silicon Market

1) 2007
 , 가
 , MKC(MEMC Korea Corporate) ,

Hemlock 1

2) 2008
 2006 8 2007 11 16
 2007 12 가 가 2/4

5000 2013 2 5000
 4,000 5000 2008 1



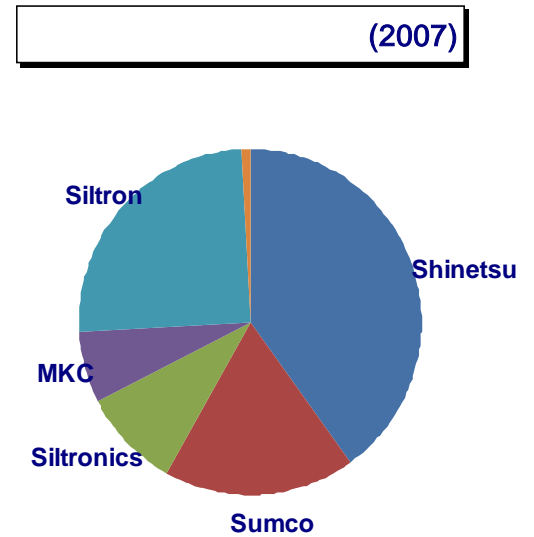
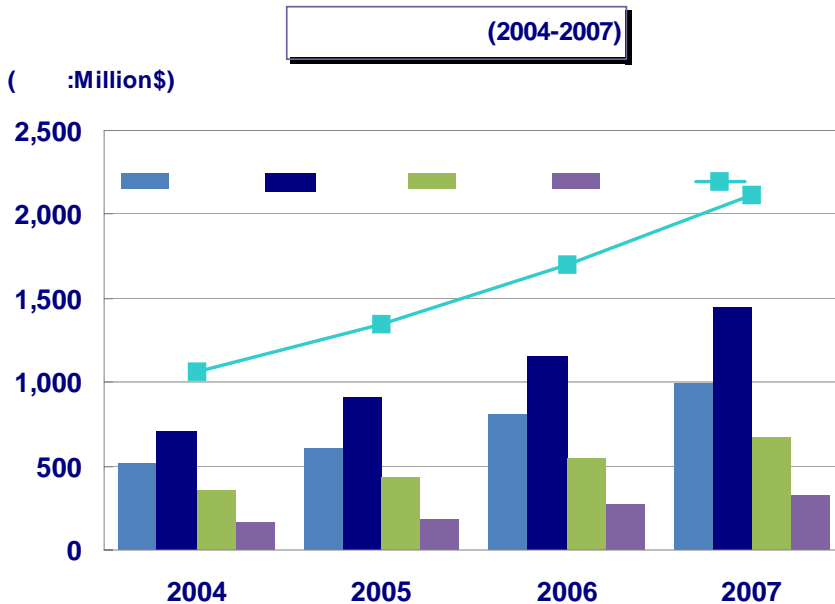
Ingot & Wafer Market

1) 21
 99.9% 300 KPE

가 , 2008

2) 2007 11 1400

..... 5000
 1400 2008



Next PV-Cell

1)

가
가
가

2) GIGS

- CIGS 1980 Boeing 가 (20W/kg)
100 W/kg GaAs 20~40 W/kg 가

3)

가 / / / 가 N
(가)

4)

가 가
- III-V 가 가 , 2007 40.7%
- III-V

5)

- 1990 (Organic Photovoltaics : OPVs) (Electron Doner D
or Hole Acceptor) (Electron Acceptor A) 가 가
- (Exciton) 가

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Publication

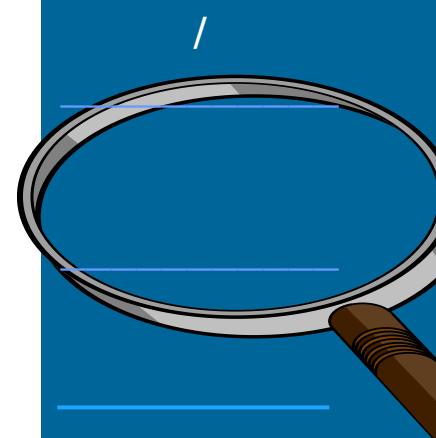
Wire Information Service

Chem Consulting

- ▶ Chemical Journal (since 1991) (Weekly chemical market magazine)
- ▶ Chemical Yearbook
- ▶ Petrochemical Industry book

- ▶ ChemLocus.co.kr
- ▶ Chem Market News DB
- ▶ Petrochemical Price DB
- ▶ Petrochemical S&D DB
- ▶ Chemical Company DB
- ▶ Seminar/Conference

- ▶ Market Analysis
- ▶ Demand Forecasting
- ▶ Price Forecasting
- ▶ New Business Development
- ▶ Feasibility Study
- ▶ Management Strategy
- ▶ Policy & Strategy Establishing



Expertise Industry

Products

Petrochemical

Olefins(C1, C2, C3, C4 Derivatives.), Aromatics, Synthetic Fiber Materials...

Performance Polymer

Electronic/Automobile/Construction Polymers, Engineering Plastics, Super EP, TPE ...

Specialty Chemicals

Electronic Chemicals, Plastic Additives, Catalyst, Environment Chemicals...

Fine Chemicals

Paint & coating, Adhesive, Surfactant, Pigment, Chloro-Alkali, Silicone, Fine Ceramic...

Chemical Market Research Inc.

Phone: +82-2 2108-8070
Fax: +82-2 2108-8077

consulting@chemlocus.com

Value Chain

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:
www.cmri.co.kr
www.chemlocus.co.kr

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